

Page 19, line 6, delete "Met-"; delete line 7 and insert therefor:

C² --Met-Lys attached to the N-terminus of 1-163 MGDF (MGDF-11; amino acids 1-163 of SEQ ID NO: 25)--; line 8, delete "of the mature protein".

Page 22, delete lines 35-36, and insert the following new description of Figs. 5A and 5B:

--FIG. 5A shows the purification of Mpl ligand by reversed phase HPLC (RP-HPLC).

C³ FIG. 5B shows that fraction 21 from the RP-HPLC contains highly purified 31 kd Mpl ligand; fraction 22 contains a mixture of the 31 kd and 25 kd Mpl ligands; and fraction 23 contains highly purified 25 kd Mpl ligand.--.

Page 23, delete lines 1^v3; line 28, after "MGDF-1" insert
--(amino acids 1-332 of SEQ ID NO: 25)^v; same line, after "MGDF-2" insert
--(amino acids 1-174 of SEQ ID NO: 25)--; line 31, after "MGDF-3" insert
--(amino acids 1-265 of SEQ ID NO: 27)^v; delete lines 33-35, and insert the following new description of Figs. 13A and 13B:

C⁴ -- FIG. 13A shows a comparison between MGDF-1 (amino acids 1-332 of SEQ ID NO: 25) with a signal peptide attached to the N-terminus and MGDF from a canine source also having a signal peptide attached to the N-terminus.

FIG. 13B shows a comparison between MGDF-1 (amino acids 1-332 of SEQ ID NO: 25) and MGDF with a signal peptide attached to the N-terminus from a murine source also having a signal peptide attached to the N-terminus.--

Page 24, delete lines 16-24, and insert the following new description of Figs. 17A, 17B and 17C:

C⁵ --FIG. 17A shows size exclusion (SEC) HPLC analysis of poly-MePEG-MGDF conjugate prepared by MGDF acylation with the NHS ester of 20 kDa MePEG (PEG 11).

FIG. 17B shows SEC HPLC analysis of poly-MePEG-MGDF conjugate prepared by MGDF alkylation with 20 kDa MePEG aldehyde (PEG 20).

C5
ord. FIG. 17C shows SEC HPLC analysis of mono-MePEG-MGDF

conjugate prepared by MGDF alkylation with MW 20 kDa MePEG aldehyde
(PEG 16).--;

still page 24, line 28, change "22-353 MGDF" to --1-332 MGDF (MGDF-1; amino acids 1-332 of SEQ ID NO: 25); line 29, change "22-184 MGDF (i.e., 1-163 MGDF)" to --1-163 MGDF (MGDF-11; amino acids 1-163 of SEQ ID NO: 25).--.

Page 26, line 21, after "codons" insert -(SEQ ID NO: 28)--.

Page 35, lines 5, 6, 8, 23, 32, and 35, after "MGDF-1" (all 6 occurrences) insert --(amino acids 1-332 of SEQ ID NO: 25); lines 5, 7, 9, 23, and 35, after "MGDF-2" (all 5 occurrences) insert --(amino acids 1-174 of SEQ ID NO: 25); lines 8, 10 and 24, after "MGDF-3" (all 3 occurrences) insert --(amino acids 1-265 of SEQ ID NO: 27); line 7, change "22-353" to --1-332--, line 9, change "22-195" to --1-174--; line 11, change "268" to --265--, line 13, change "1-21" to -- -21 to -1--; delete lines 19-21 and insert the following:

- C6*
- MGDF-1: amino acids 1-332 of SEQ ID NO: 25
 - MGDF-2: amino acids 1-174 of SEQ ID NO: 25
 - MGDF-3: amino acids 1-265 of SEQ ID NO: 27--.

Page 36, lines 2, 4, 13, 18, 20, 22, 28, and 33, after "MGDF-1" (all 8 occurrences) insert --(amino acids 1-332 of SEQ ID NO: 25); line 30, change "24" to --3--.

Page 37, delete lines 1-8 and insert the following:

- C7*
- MGDF-4: amino acids 1-151 of SEQ ID NO: 25
 - MGDF-5: amino acids 1-156 of SEQ ID NO: 25
 - MGDF-6: amino acids 1-170 of SEQ ID NO: 25
 - MGDF-7: amino acids 1-177 of SEQ ID NO: 25
 - MGDF-8: amino acids 1-244 of SEQ ID NO: 25
 - MGDF-11: amino acids 1-163 of SEQ ID NO: 25--;

still page 37, line 9, change "133-136" to --112-115--; lines 10, 30, and 33, after "MGDF-1" (all 3 occurrences) insert --(amino acids 1-332 of SEQ ID NO: 25); line 15, change "192" to --171--; lines 16 and 18, change "191" (both

occurrences) to --170--; lines 19, 25, 27, 31, 34, and 35, after "MGDF-3" (all 6 occurrences) insert --(amino acids 1-265 of SEQ ID NO: 27)--; line 25, change "160" to --139--.

Page 38, line 2, after "MGDF-2" insert --(amino acids 1-174 of SEQ ID NO: 25)--; delete lines 4-5 and insert the following:

C⁸
-- MGDF-9: amino acids 1-158 of SEQ ID NO: 27
MGDF-10: amino acids 1-244 of SEQ ID NO: 27--;

Page 44, delete lines 21-29 and insert the following:

C⁹
-- MGDF-1: amino acids 1-332 of SEQ ID NO: 25
MGDF-2: amino acids 1-174 of SEQ ID NO: 25
MGDF-4: amino acids 1-151 of SEQ ID NO: 25
MGDF-11: amino acids 1-163 of SEQ ID NO: 25
MGDF-12: amino acids 6-332 of SEQ ID NO: 25
MGDF-13: amino acids 6-174 of SEQ ID NO: 25
MGDF-14: amino acids 6-151 of SEQ ID NO: 25
MGDF-15: amino acids 6-163 of SEQ ID NO: 25--.

Page 45, delete lines 5-7 and insert the following:

C¹⁰
-- pegylated MGDF-11 (amino acids 1-163 of SEQ ID NO: 25)
pegylated MGDF-4 (amino acids 1-151 of SEQ ID NO: 25)
pegylated MGDF-2 (amino acids 1-174 of SEQ ID NO: 25)--.

Page 78, line 31, change "transciptase" to --transcriptase--.

Page 81, line 6, delete "(MGDF-1 and MGDF-2; SEQ ID NOS: 24, 25; and 26, 27); line 7, delete "[MGDF-3; SEQ ID NOS: 28, 29]"; line 9, change "1-21" to -- -21 to -1 --; line 10, change "22" to --2--; line 22, change "MGDF-1 and MGDF-2, but not MGDF-3" to --MGDF-1 (amino acids 1-332 of SEQ ID NO: 25) and MGDF-2 (amino acids 1-174 of SEQ ID NO: 25), but not MGDF-3 (amino acids 1-265 of SEQ ID NO: 27)--; line 26, change "MGDF-1 and MGDF-2" to --MGDF-1 (amino acids 1-332 of SEQ ID

NO: 25) and MGDF-2 (amino acids 1-174 of SEQ ID NO: 25).
Page 82, in Tables 3 and 4, after "MGDF-1" (all 3 occurrences)
insert --(amino acids 1-332 of SEQ ID NO: 25)--; in Tables 3 and 4, after
"MGDF-2" (all 4 occurrences) insert --(amino acids 1-174 of SEQ ID NO:
25)--; and in Tables 3 and 4, after "MGDF-3" (both occurrences) insert
--(amino acids 1-265 of SEQ ID NO: 27)--; still page 79, line 12, after
"MGDF-1" insert --(amino acids 1-332 of SEQ ID NO: 25)--; line 12, after
"MGDF-2" insert --(amino acids 1-174 of SEQ ID NO: 25)--.

Page 83, lines 7 and 10, after "MGDF-1" (both occurrences)
insert --(amino acids 1-332 of SEQ ID NO: 25)--; lines 8 and 10, after
"MGDF-2" (both occurrences) insert --(amino acids 1-174 of SEQ ID NO:
25)--; line 10, after "MGDF-3" insert --(amino acids 1-265 of SEQ ID NO:
27)--.

Page 84, in Table 6, after "MGDF-1" insert --(amino acids 1-332
of SEQ ID NO: 25)--; in Table 6, after "MGDF-2" (both occurrences) insert
--(amino acids 1-174 of SEQ ID NO: 25)--; in Table 6, after "MGDF-3" insert
--(amino acids 1-265 of SEQ ID NO: 27)--; line 12, after "MGDF-11" insert
--(amino acids 1-163 of SEQ ID NO: 25)--; lines 13-14, delete "22-184,
numbering from the beginning of the signal peptide or amino acids".

Page 92, line 19, change "derived, 1-163" to --derived MGDF-11
(amino acids 1-163 of SEQ ID NO: 25).

Page 93, line 35, change "22-353" to --1-332 MGDF (MGDF-1;
amino acids 1-332 of SEQ ID NO: 25)--; line 36, change "22-184" to --1-163
MGDF (MGDF-11; amino acids 1-163 of SEQ ID NO: 25)--.

Page 94, line 1, change "22-184" to --1-163 MGDF (MGDF-11;
amino acids 1-163 of SEQ ID NO: 25)--.

Page 95, in Table 10, change "CHO 22-353" to --CHO-derived

C" MGDF-1 (amino acids 1-332 of SEQ ID NO: 1)--; change "E. coli 22-184" to -
C" -E. coli MGDF-11 (amino acids 1-163 of SEQ ID NO: 25)--; lines 12-13,

delete "22-184, numbering from the beginning of the signal peptide or amino acids".

Page 96, line 26, change "E. coli 22-184" to --E. coli MGDF-11 (amino acids 1-163 of SEQ ID NO: 25)--; line 27, change "CHO-derived 22-353" to --CHO-derived MGDF-1 (amino acids 1-332 of SEQ ID NO: 25)--.

Page 97, line 4, change "MGDF [1-163]" to --MGDF-11 (amino acids 1-163 of SEQ ID NO: 25)--.

Page 100, lines 35 and 36, delete " " (both occurrences) and insert --69717--.

Page 103, line 14, change "(E. coli 1-163)" to --(E. coli MGDF-11: amino acids 1-163 of SEQ ID NO: 25)--.

Page 105, line 29, after "1-332" insert --(MGDF-1: amino acids 1-332 of SEQ ID NO: 25)--.

Please delete the previously submitted sequence listing and insert the new sequence listing filed with this response between pages 109 and 110 of the specification as filed as pages 110-127. Also, please renumber pages 110-119 as pages 128-137.

In the Claims

Please cancel Claims 66 - 77 and add the following new Claims
78 - 89:

--78. An isolated polynucleotide encoding a polypeptide consisting of the amino acids X - Y - Z of SEQ ID NO: 25, wherein X is -21, Y is -20 through 150, and Z is selected from the group consisting of amino acids 151 through 244, wherein said polypeptide has an activity of specifically promoting megakaryocyte growth or differentiation.